

# Introduction to Data Engineer Profile

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DATA ENGINEERING

# Learning Objectives

- You will learn Why Data Engineer profile is in demand?
- You will learn the difference between different Data Science related profiles
- You will learn Data Engineer role and responsibilities
- You will learn about Data Engineer technologies



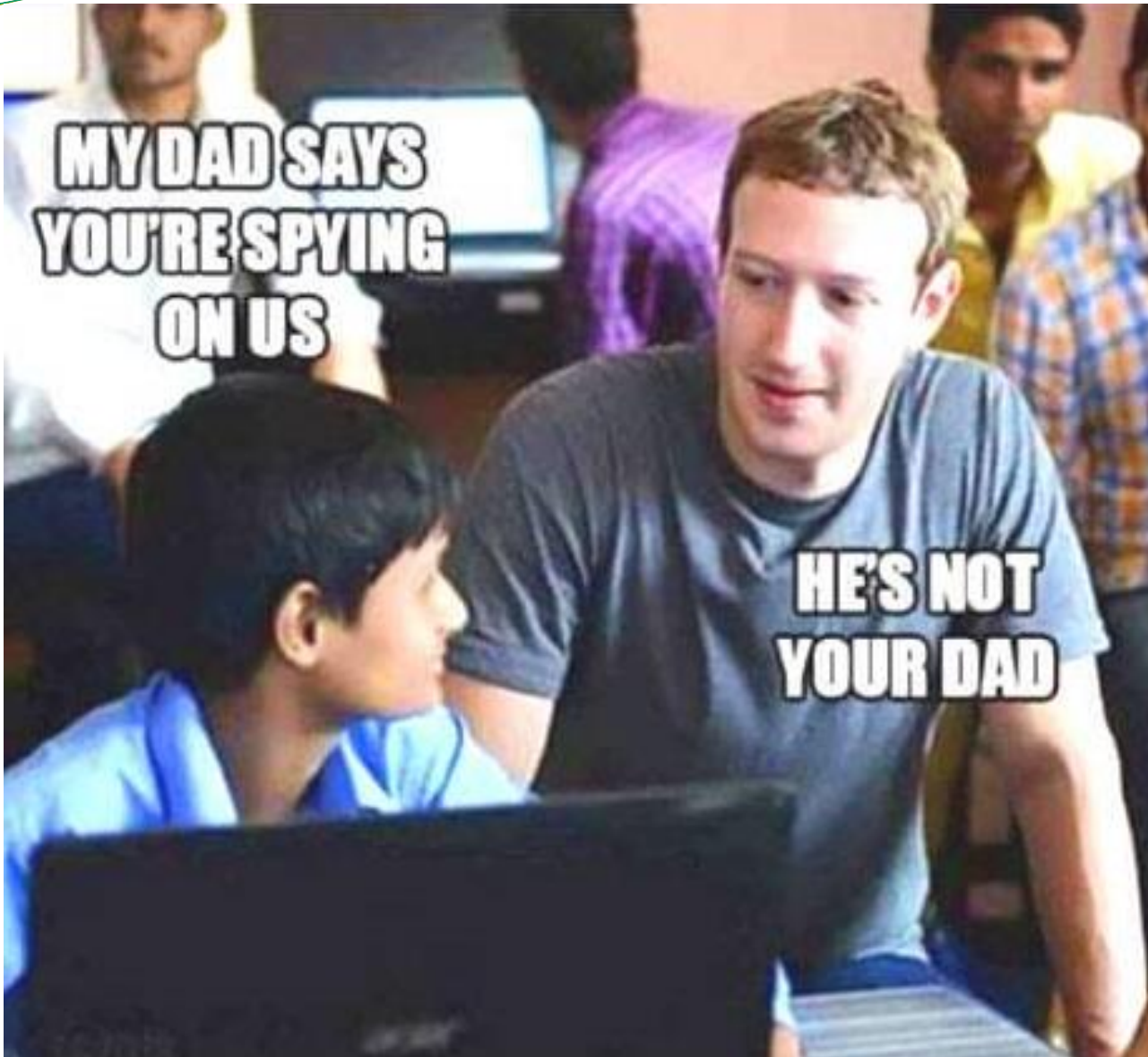
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Why we did not have a Data Engineer profile earlier?

# Data expanding





When I say Everything  
is getting record.  
I mean it 😊

# Social media stats

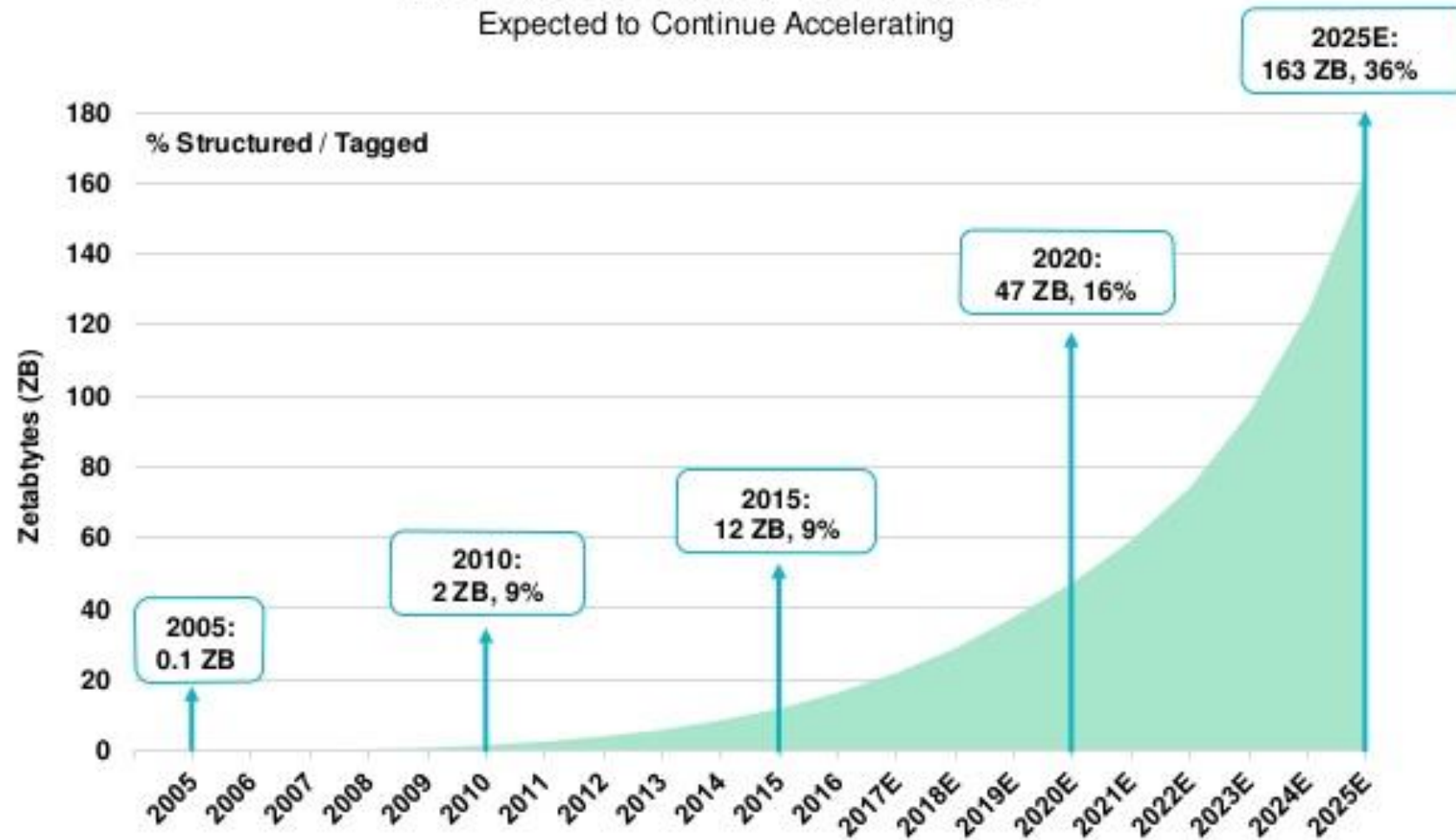


- Whatsapp handle 60 billion messages a day
- Google process 40,000 search queries every second
- Average user spends 35 minutes on Facebook a day
- 500 million Tweets sent each day
- 300 hours of video are uploaded to Youtube every minute



# Exponential growth of Data

**Information Created Worldwide =**  
Expected to Continue Accelerating





1 Zettabytes = 1 trillion Gigabyte

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Once upon a time ☺

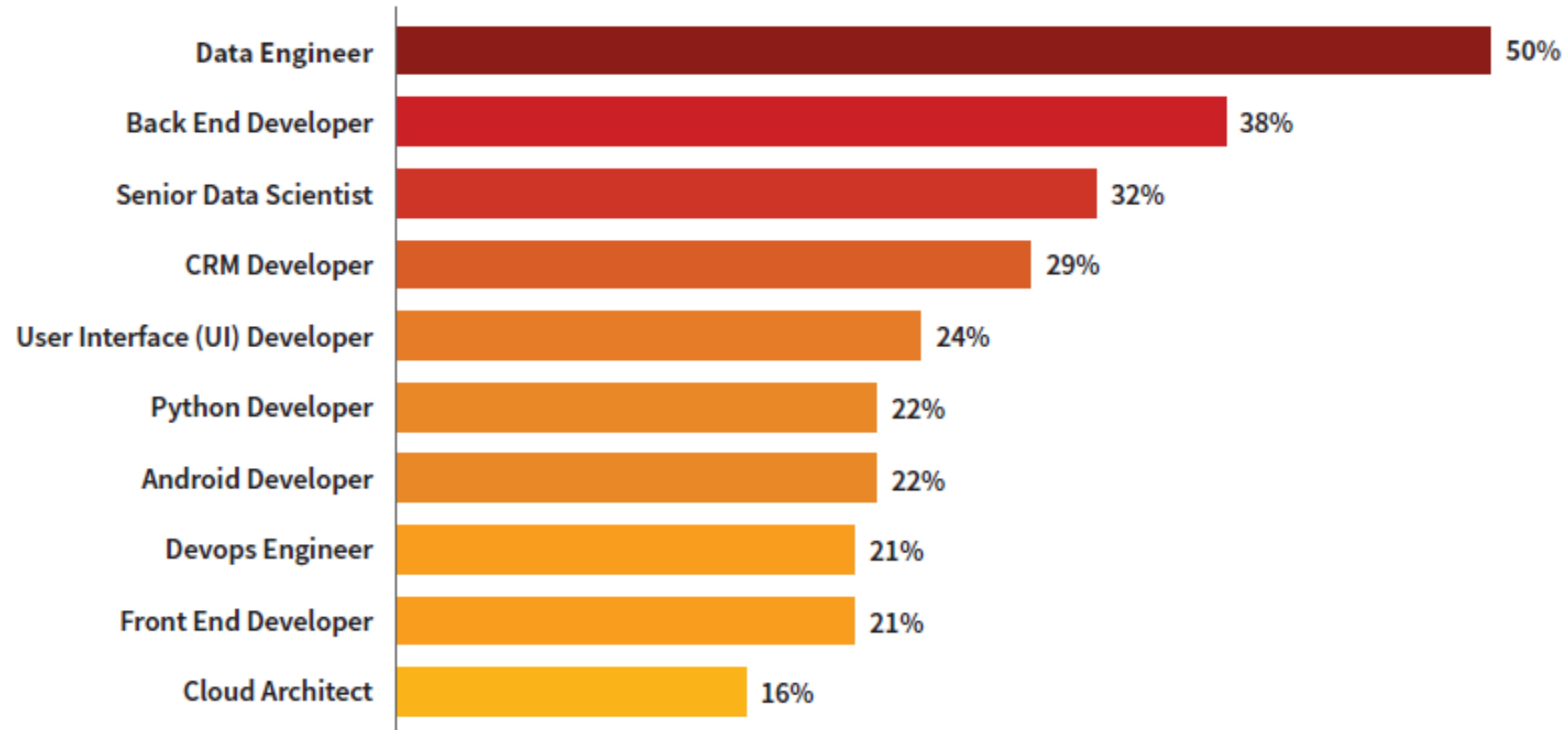


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**DATA**  
**IS THE NEW OIL**

# Data Engineer – Top in Demand Job

## FASTEST GROWING TECH OCCUPATIONS YEAR-OVER-YEAR GROWTH



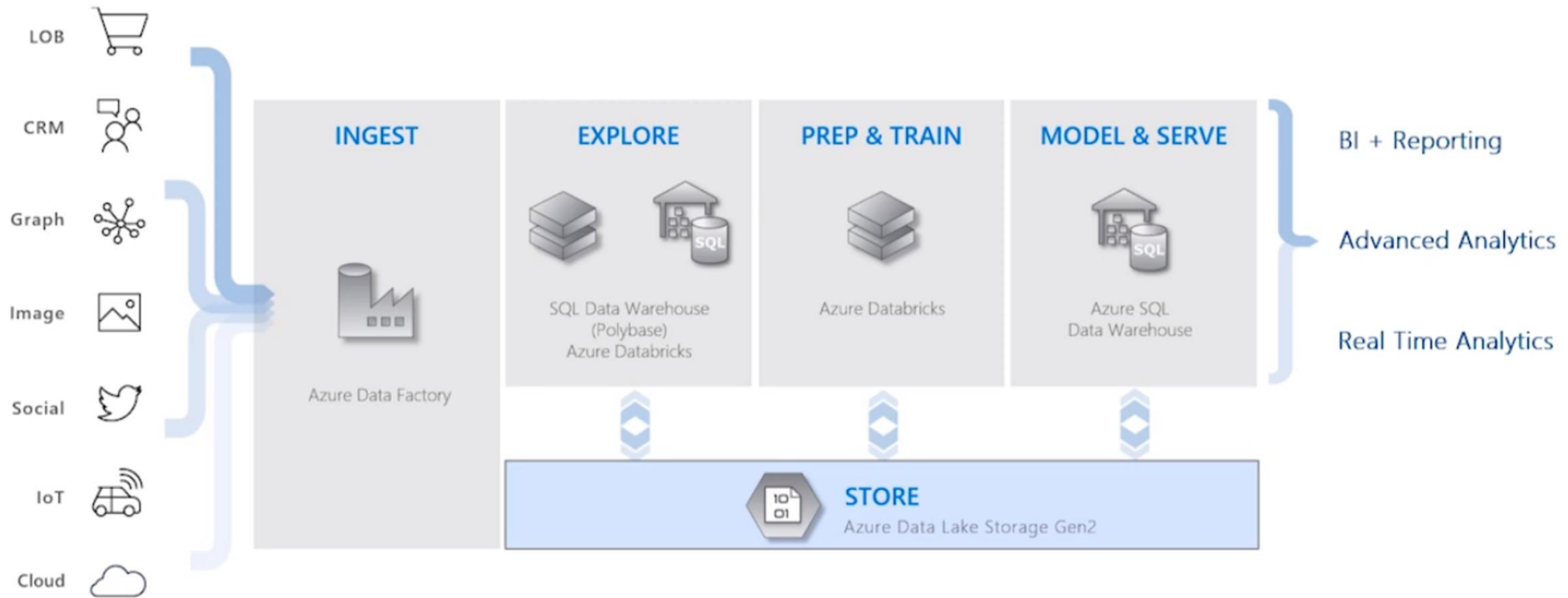
# Why Data Engineers?



We need dedicated professionals in order to handle this large amount of information.

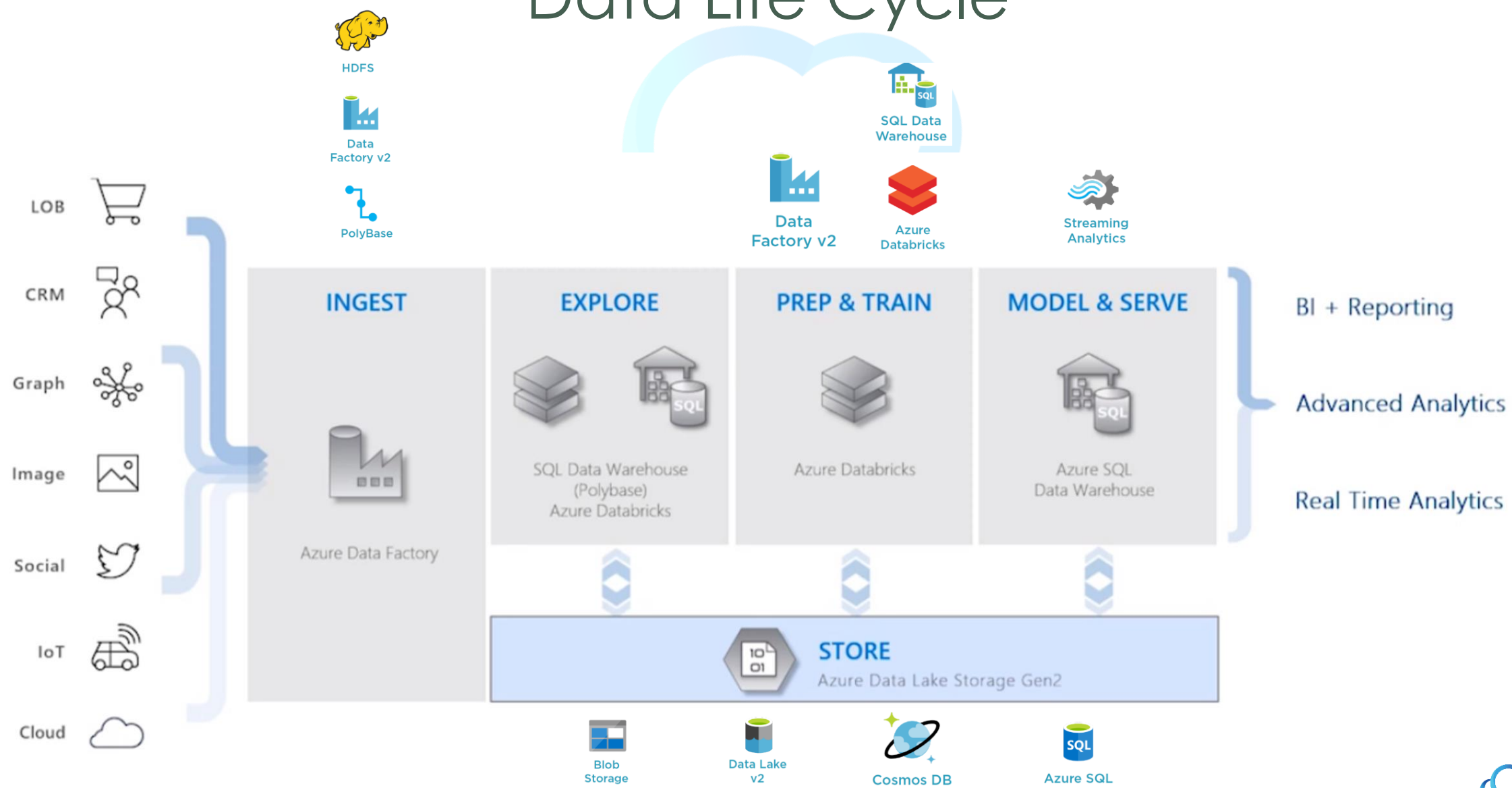


# Data Life Cycle



Source: Microsoft

# Data Life Cycle



Source: Microsoft





# Learning Outcome

- You should now why Data Engineer role is in so much demand?
- You should know Data Engineer role and responsibility
- You should aware of Data Engineering technologies



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